

## National Hydrology Project (NHP):

Survey of India is one of the Central Implementation Agencies in the National Hydrology Project (NHP) of Government of India which is intended for setting up of a system for timely and reliable water resources data acquisition, storage, collation and management. The Ministry of Jal Shakti, Department of Water Resources, River Rejuvenation and Ganga Rejuvenation (DoWR, RD&GR) is the Nodal Ministry for implementation of the project

NHP will provide tools/systems for informed decision making through Decision Support Systems (DSS) for water resources assessment, flood management, reservoir operations, drought management, etc. NHP also seeks to build capacity of the State and Central sector organizations in water resources management through the use of Information Systems and adoption of State-of-the-art technologies like Remote Sensing..

Survey of India has been entrusted with the responsibility to generate, prepare and provide various types of Geo-spatial datasets i.e. mapping and preparing the Digital Elevation Model (DEM) of 0.5m, 5m & 10 m for River Basin areas (plain), up to 5 km on both the sides of river and GIS ready data of SOI Topo sheets on 1: 25 K scale.

The Project is to be completed in eight years duration with two phases of four years each. In first phase Ganga, Brahmaputra, Mahanadi, Godavari, Gandak, Kosi, Narmada, Satluj etc. river basins will be completed by 2021. Sol has to focus on two core areas as under

### **Component B: Water Resources Information System (WRIS)**

Survey of India provides basic foundation data given as under

- i) National Digital Elevation Model (DEM) for improved flood hazard mapping and other planning purposes,
- ii) Local high resolution surveys (such as LIDAR) for flood prone areas to support flood riskmapping and management action plans

### **Component D: Institutions Capacity Enhancement.**

Through this Survey of India provides infrastructure and communication equipment, capacity building and extensive training programs. Advance training has been imparted to 68 Officers/ staffs on various courses (i.e. 3D Geo Information from Imagery, Advance Image Analysis & Laser Scanning at ITC Netherland, Summer Course of Geodesy on Geoid Modeling International at Denmark Technical University (DTU) Space, World Bank Procurement procedure at NWA Pune & ASCI Hyderabad, Training at IIM Ahmadabad and training on Control & Detail Survey by using GPS & Total Station, creation of DEM at IISM, Hyderabad.

**Project Deliverables:**

- DEM of vertical accuracy of 3-5m & 0.5m for flood modeling
- Digital Geo-Database of 1:25K scale
- Creation of Geoid Model of 10 cm accuracy
- Establishment of CORS network

**Status:** Project is under execution

F. No. X- 92021/1/2016-NHP/1158 -1258  
Government of India  
Ministry of Water Resources, RD & GR  
National Hydrology Project

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2<sup>nd</sup> Floor, Block-3, CGO Complex, Lodhi Road  
New Delhi, Dated: 23<sup>rd</sup> June, 2016

**ORDER**

**Sub: Approval of the Cabinet for implementation of National Hydrology Project.**

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Approval of the President is conveyed for implementation of the National Hydrology Project under the Ministry of Water Resources, River Development and Ganga Rejuvenation with an outlay of Rs. 3679.7674 crore (Rupees three thousand six hundred seventy nine crore seventy six lakh and seventy four thousand only). The total outlay Rs. 3679.7674 crore {Rs.3,640 crore for National Hydrology Project (NHP) and Rs.39.7674 crore for NWIC}, as a Central Sector Scheme, with 100% grant to the State/Central Implementing agencies (IAs) is to be taken up in two stages. The first stage entails an expenditure of Rs 1681.5674 crore. The second stage for the period 2020-21 to 2023-24 has an outlay of Rs 1998.2000 crore. Fifty percent of the amount will come as World Bank loan and the remaining 50% as budgetary support from Government of India for both the Stages.

**2. Budget allocation:**

The Scheme of National Hydrology Project envisages a provision of Rs. 3679.7674 crore for (i) Water Resources Data Acquisition System; (ii) Water Resources Information System; (iii) Water Resources Operation and Planning; (iv) Institutional Capacity Building; and (v) National Water Informatics Centre (NWIC). The component-wise, stage-wise details of distribution are given below:

	Activities	Outlay (Rs. in Crore)		Total (Rs. in Crore)
		Stage-I	Stage-II	
Component-A	Water Resources Data Acquisition	617	970	1587
Component-B	Water Resources Information System	250	269	519
Component-C	Water Resources Operation and Planning	211	396	607
Component-D	Institutions Capacity Enhancement	544	347	891
	Contingency	19.8	16.2	36
NWIC	National water Informatics Centre (NWIC)	39.7674	-	39.7674
	<b>Total</b>	<b>1681.5674</b>	<b>1998.2</b>	<b>3679.7674</b>

- 2.1 Detailed component-wise, stage-wise yearly financial outlays is given in Annexure I.
- 2.2 Detailed State/Central Implementing Agency's Component wise break-up is given in Annexure II.
- 2.3 Allocations may change based on progress, necessity and utilization of funds by the Implementing Agencies during the course of project implementation.
- 2.4 Budget allocation is in conformity with the Cabinet note and Annexure referred therein.

### **3. Implementation Plan:**

3.1 All the State and Central organizations under the Project will be known as Implementing Agencies (IAs).

3.2 The IAs will be required to submit their Annual Work Plan (AWP) and Annual Procurement Plan (APP) for the year 2016-17 latest by 31.07.2016. The AWP and APP for subsequent year is required to be submitted by 31<sup>st</sup> December.

3.3 The IAs would be required to submit their final PIPs along with the write-up latest by 30.06.2016. The Template for the PIPs has already been sent to all the IAs.

3.4 The IAs may initiate activities, e.g. preparation of Bid documents, floating of bids, etc. so as to meet the readiness criteria suggested by DEA which stipulates that 30% of the Bids should be ready for award at the time of signing of the Agreement with the World Bank. This para may be read with Para 9 of this G.O.

### **4. Creation of NPMU/PMUs:**

4.1 The National Project Monitoring Unit (NPMU) in the Ministry of Water Resources, RD&GR would be assisted by a Technical Assistance & Management Consultancy (TAMC) for technical and management aspects, including assistance on procurement, MIS etc. and shall also provide support to all the IAs.

4.2 The NPMU would be assisted by Auditing Consultants to carry out independent audit of the State and Central Implementing Agencies w.r.t. to the expenditure incurred and the activities taken up under NHP.

4.3 The State and Central Implementing Agencies (IAs) would be required to have a dedicated Project Monitoring Unit (PMU). The constitution of the same along with their contact details may be furnished to NPMU latest by 15.07.2016.

### **5. Role of MoWR, RD&GR in NHP.**

#### **a. Technical and Management Support (through TAMC/CWC/CGWB)**

- i. Finalisation of specifications and Terms of reference of consultancies, Preparation and evaluation of bids etc.
- ii. Evaluation of activities etc.
- iii. Technical support on project implementation

#### **b. Training program through NIH/NWA/RGI**

- i. Training program development in all the aspects of project along with academia and R&D institutes across India.
- ii. Provide trainings

#### **c. MIS for project monitoring (financial and physical)**

#### **d. Financial Consultancy for auditing**

#### **e. MoUs with National and International organizations**

#### **f. National Water Informatics Centre with**

- i. Accessibility to real time and integrated River Basin information (nearly 100 layers) including high resolution DEM, ET, Weather forecast, historical database.
- ii. Software and support for development of State-WRIS.



- iii. Such an organisation is to be created as per IRDA Act, 1956
- iv. Sharing of data through NWIC / CWC's Earth Receiving Station
- g. CWC's and CGWB's Web-based Database management system
  - i. with cloud storage hence no financial burden to States
  - ii. Provision of linkage with States' Data Centres
- h. Regional River Basin modeling Tools through CWC :
  - i. Flood forecasting and early warning system coupled with weather forecast
  - ii. Water Resources Assessment at River basin scale.

#### **6. Roles of States & Central Implementing Agencies (IAs) in NHP.**

The IAs need to work in close coordination with MoWR, RD&GR and central agencies to derive maximum benefits through, but not limited to, the following:

- a. Design of hydro-met network
- b. States' Data integration and improving accessibility through NWIC.
- c. River Basin Models for flood forecasting, flash floods and inundation in the affected areas in greater details
- d. Improved assessment of their basin wise water resources.
- e. Timely submission of financial and physical progress reports through MIS.
- f. Timely submission of their annual procurement plans, annual work plans
- g. Timely preparation of bids and procurement of respective goods, works, consultancies etc.
- h. Timely submission of Audited utilization Certificates by CAG Approved Auditors.

#### **7 MIS/Reporting System:**

Progress of actions to implement the decision of the Cabinet has to be included in Ministry's Monthly summary. The Implementing agencies are advised to submit their Monthly progress report, Expenditure, Bill, Voucher etc. through the MIS System soon to be in place for NHP. This requisite reports may be sent to NPMU in the Ministry of Water Resources, RD&GR every month till such time the MIS is in place.

#### **8. Fund Flow Mechanism:**

The fund flow mechanism for the National Hydrology Project will be informed separately. In the meantime, as the grants to the States cannot be transferred to the States' Treasury, the Implementing Agencies are requested to open a separate Savings Bank Account in a Scheduled Bank for the NHP and notify the same to NPMU, MoWR, RD&GR.

#### **9. Procurement Procedure:**

The IAs need to follow the World Bank Procurement Guidelines. The IAs may initiate the preparation of the tender Documents on the same lines. However, only either of the following options may be considered, viz.

- a) The supplier shall supply the equipment and also carry out the O&M services and ensure seamless data communication to the State and Central servers. The contractor shall be paid 40% of the cost at the time of successful commissioning and the balance 60% of the cost together with O&M and data communication over the balance 6 years.


b) The supply of equipment plus the O&M including data communication on six years lease by the supplier. The State government shall pay the monthly/quarterly/yearly lease rental. After six years, the supplier shall transfer the equipment at Rs.1/- to the Government which may assign the O&M contract to the same party.

The standard tender documents provided under NHP have already included the first option. The detailed mechanism for procurement (Procurement manual) under the National Hydrology Project will be informed separately. However, only one of the options mentioned above may be considered.

**10.** All the States & Central Implementing Agencies, should endeavour to install atleast any 10 nos. of Hydromet equipment (e.g. Rain Gauge, Automatic Weather Stations, DWLRS etc) in the School/College/Panchayat/Community Halls premises for public awareness.

**11.** This issues with the concurrence of the Integrated Finance Division, MoWR, RD&GR conveyed vide FTS dated 17/6/2016.

**12.** The Government Order for National Water Informatics Centre (NWIC) will be issued separately.

  
23/06/2016

**(Ashok Gupta)**  
**Director (HP)**

**Tele-fax No. 011-24363417**

To

- 1) Chief Secretaries of State Governments (as per List -I)
- 2) Heads of Central Organisations (as per List-II)
- 3) Principal Secretaries of State Implementing Agencies (as per List-III)
- 4) Project Coordinators/Nodal Officers of State and Central Organisations (List-IV)
- 5) Joint Secretary, Cabinet Secretariat, Rashtrapathi Bhawan, New Delhi w.r.t. letter No. 16/CM/2016 dated 07.04.2016.
- 6) Joint Secretary, PMO, South Block, New Delhi (Kind Attn. Ms. Debashree Mukherjee)
- 7) Joint Secretary (PFII), Department of Expenditure, New Delhi.
- 8) Joint Secretary (Personnel), Department of Expenditure, New Delhi.
- 9) Joint Secretary (MI), Department of Economic Affairs, Ministry of Finance, North Block, New Delhi
- 10) Principal Advisor (WR), NITI Aayog, New Delhi.
- 11) Director (Finance), MoWR, RD & GR, New Delhi.
- 12) Chief Controller of Accounts, MoWR, RD & GR, Shastri Bhawan, New Delhi.
- 13) Pay & Accounts Officer (Sectt.), MoWR, RD & GR, Shastri Bhawan, New Delhi.
- 14) Finance Desk/B&T/GA Section, MoWR, RD & GR/ Guard file.
- 15) Task Team Leader (Dr. Anju Gaur), World Bank, Kasturba Gandhi Marg, Hindustan Times Building, New Delhi (with the request to upload the order on website).

Copy for kind information to:

- 1) PS to Hon'ble Minister (WR, RD & GR)
- 2) PS to Hon'ble Minister of State (WR, RD & GR)
- 3) Sr. PPS to Secretary (WR, RD & GR), MoWR, RD & GR
- 4) PPS to SS (WR, RD & GR), MoWR, RD & GR
- 5) PS to JS (A & GW), MoWR, RD & GR
- 6) PS to JS&FA, MoWR, RD & GR



## Component-wise &amp; year-wise Financial Outlay of the National Hydrology Project\*\*

(Rs. in Crore)

Component	Capital/ Revenue	Stage 1								Phase 1 Total	Stage 2				Phase 2 Total	Grand Total
		Year 1 (2016-17)	Year 2 (2017-18)	Year 3 (2018-19)	Year 4 (2019-20)	Year 5 (2020-21)	Year 6 (2021-22)	Year 7 (2022-23)	Year 8 (2023-24)							
<b>NHP</b>																
A1: Hydromet Observation	Capital	40	72	72	252	436	295	280	90	42	707	1143				
A2: Automated System Operation and Data Acquisition	Capital	7	8	8	3	26	3	1	1	1	6	32				
A3: Hydro Informatics Centers	Capital	15	40	40	60	155	80	90	70	17	257	412				
A : Water Resources Data Acquisition System		62	120	120	315	617	378	371	161	60	970	1587				
B1: National Water Resources Information System	Revenue	5	50	50	80	185	70	80	50	25	225	410				
B2: Regional Water Resources Information System	Revenue	5	15	15	30	65	15	15	10	4	44	109				
B: Water Resources Information System		10	65	65	110	250	85	95	60	29	269	519				
C1: Analytical and DSS tools	Revenue	9	20	20	90	139	90	95	55	40	280	419				
C2: Purpose Driven Studies	Revenue	2	15	15	20	52	41	41	11	7	100	152				
C3: Knowledge Products and Dissemination	Revenue	2	5.5	5.5	7	20	7	4	4	1	16	36				
C: Water Resources Operation and Planning		13	40.5	40.5	117	211	138	140	70	48	396	607				
D1: Water Resources Knowledge Centers	Capital	10	15	15	33	73	25	25	12	7	69	142				
D2: Professional Development	Revenue	15	45	45	46	151	30	25	10	7	72	223				
D3: Project Management and Technical assistance	Revenue	30	20	20	20	90	15	15	7	7	44	134				
D4: Operational Cost	Revenue	40	55	55	80	230	50	50	40	22	162	392				
D: Institutions Capacity Enhancement		95	135	135	179	544	120	115	69	43	347	891				

Contingency																				
	<b>Total (NHP)</b>		180	360.5	360.5	721	1642	721											16.2	36
	<b>NWIC</b>																			
	Equipment & Imageries etc.	Capital	9.5	7.8			17.3													
	Others (Travel, manpower, consultancy etc.)	Revenue	10.3714	12.096		22.4674														
	<b>Total (NWIC)</b>		19.8714	19.896		39.7674														39.7674
	<b>Grand Total</b>		199.8714	380.3960	360.50	721.00	1681.5674	721.00	721.00	360.00	180.00	1998.20	3679.7674							

\*\* Intra-allocation may change based on necessity and utilization of funds by the Implementing Agencies



**Annexure- II**

**State/Central Implementing Agency's Component wise break-up**

(Rs in Crore)

S.No.	Implementing Agency	Tentative Allocations	Component wise			
			A	B	C	D
<b>STATES</b>						
1	Andhra Pradesh (GW)	80.00	48.00	4.00	12.00	16.00
2	Andhra Pradesh (SW)	80.00	48.00	4.00	12.00	16.00
3	Assam	47.00	28.20	2.35	7.05	9.40
4	Bihar (GW)	30.00	18.00	1.50	4.50	6.00
5	Bihar (SW)	105.00	63.00	5.25	15.75	21.00
6	Chattishgarh SW	48.00	28.80	2.40	7.20	9.60
7	Chattishgarh GW	32.00	19.20	1.60	4.80	6.40
8	Goa	68.00	40.80	3.40	10.20	13.60
9	Gujarat (GW)	31.00	18.60	1.55	4.65	6.20
10	Gujarat (SW)	70.00	42.00	3.50	10.50	14.00
11	Haryana (SW)	50.00	30.00	2.50	7.50	10.00
12	Himachal Pradesh	70.00	42.00	3.50	10.50	14.00
13	Jharkhand	60.00	36.00	3.00	9.00	12.00
14	Karnataka (SW)	110.00	66.00	5.50	16.50	22.00
15	Kerala (GW)	40.00	24.00	2.00	6.00	8.00
16	Kerala (SW)	42.00	25.20	2.10	6.30	8.40
17	Madhya Pradesh	90.00	54.00	4.50	13.50	18.00
18	Maharashtra (GW)	36.00	21.60	1.80	5.40	7.20
19	Maharashtra (SW)	150.00	90.00	7.50	22.50	30.00
20	Manipur	25.00	15.00	1.25	3.75	5.00
21	Meghalaya	25.00	15.00	1.25	3.75	5.00
22	Mizoram	31.00	18.60	1.55	4.65	6.20
23	Nagaland	28.00	16.80	1.40	4.20	5.60
24	Odisha (GW)	55.00	33.00	2.75	8.25	11.00
25	Odisha (SW)	60.00	36.00	3.00	9.00	12.00
26	Punjab	74.00	44.40	3.70	11.10	14.80
27	Rajasthan	128.00	76.80	6.40	19.20	25.60
28	Sikkim	25.00	15.00	1.25	3.75	5.00
29	Tamil Nadu	100.00	60.00	5.00	15.00	20.00
30	Telangana (GW)	70.00	42.00	3.50	10.50	14.00
31	Telangana (SW)	97.00	58.20	4.85	14.55	19.40
32	Tripura	25.00	15.00	1.25	3.75	5.00
33	Uttar Pradesh(GW)	50.00	30.00	2.50	7.50	10.00
34	Uttar Pradesh (SW)	121.00	72.60	6.05	18.15	24.20
35	Uttarkhand	75.00	45.00	3.75	11.25	15.00
36	West Bengal (GW)	50.00	30.00	2.50	7.50	10.00
37	West Bengal (SW)	100.00	60.00	5.00	15.00	20.00
<b>UTs</b>						
1	Delhi	5.00	3.00	0.25	0.75	1.00
2	Puducherry	20.00	12.00	1.00	3.00	4.00

<b>CENTRAL AGENCIES</b>						
1	Ministry of Water Resources, River Development & Ganga Rejuvenation (MoWR, RD & GR)	210.00	10.00	30.00	0.00	170.00
2	Central Water Commission(CWC)	275.00	35.00	35.00	155.00	50.00
3	Central Ground Water Board (CGWB)	85.00	17.00	23.00	35.00	10.00
4	National Institute of Hydrology (NIH)	85.00	10.75	0.00	25.50	48.25
5	Central Water & Power Research Station (CWPRS)	60.00	10.00	0.00	2.00	48.00
6	Central Pollution Control Board (CPCB)	26.00	22.00	1.00	0.00	3.00
7	India Meteorological Department (IMD)	0.00	0.00	0.00	0.00	0.00
8	Survey of India (SOI)	300.00	0.00	250.00	0.00	50.00
9	National Remote Sensing Agency(NRSA)	80.00	0.00	55.00	10.00	15.00
10	Bhakra Beas Management Board (BBMB)	30.00	10.00	2.00	12.00	6.00
11	Damodar Valley Corporation (DVC)	50.00	30.00	2.50	7.50	10.00
	Contingency	36.00				
<b>NWIC</b>						
1	National water Information centre	39.7674				
<b>TOTAL</b>		<b>3679.7674</b>	<b>1587</b>	<b>519</b>	<b>607</b>	<b>891</b>

**List of Chief Secretaries, National Hydrology Project**

1. Shri S.P.Tucker,, Chief Secretary, Government of Andhra Pradesh, Secretariat, Hyderabad-500022.
2. Shri Vinod Kr. Pipersenia, Chief Secretary, Government of Assam, Assam Sachivalaya, Block C, 3rd Floor, Dispur, Guwahati-781006
3. Shri Anjani Kr. Singh, Chief Secretary, Government of Bihar, Old Secretariat, Patna-800015
4. Sh. Vivek Kumar Dhand, Chief Secretary, Government of Chhattisgarh, DKS Bhawan, Mantralaya, Raipur-492001
5. Shri R. K. Srivastava, Chief Secretary, Govt. of Goa, Secretariat, Panaji-403521.
6. Shri G.R. Aloria, Chief Secretary, Government of Gujarat, New Sachivalaya, Gandhingar-382010
7. Sh. D.S. Dhesi, Chief Secretary, Government of Haryana, Harayana, Civil Secretariat, Chandigarh-160009
8. Sh. P. Mitra, Chief Secretary, Government of Himachal Pradesh, Secretariat, Shimla- 171002
9. Ms. Rajbala Verma, Chief Secretary, Government of Jharkhand, Secretariat, Ranchi-834002
10. Shri Arvind Jadhav, Chief Secretary, Government of Karnataka, 3rd Floor, R. No. 320, Vidhan Sauda, Secretariat, Bangalore-560001
11. Sh. P.K. Mohanty, Chief Secretary, Government of Kerala, Secretariat, Thiruvananthapuram-695001
12. Shri Anthony Desa, Chief Secretary, Government of Madhya Pradesh, Mantralaya, Vallabh Bhawan, Bhopal-462004
13. Shri Swadheen S. Kshatriya, Chief Secretary, Government of Maharashtra, Mantralaya, Mumbai-400032.
14. Sh .O. Navakishore Singh, Chief Secretary, Government of Manipur, Manipur Secretariat, Imphal-790001



15. Sh. K.S. Kropha, Chief Secretary, Government of Meghalaya, Meghalaya Civil Secretariat, Shillong-793001
16. Shri Lalmalsawma, Chief Secretary, Government of Mizoram, Block C, Civil Secretariat, Aizwal- 796001
17. Shri Pankaj Kumar, Chief Secretary, Government of Nagaland, Nagaland Civil Secretariat, Kohima-790001
18. Shri Aditya Prasad Padhi, Chief Secretary, Government of Orissa, Secretariat, Bhubaneshwar- 751001
19. Shri Sarvesh Kaushal, Chief Secretary, Government of Punjab, Punjab , Secretariat, Chandigarh-160017
20. Shri C.S. Rajan, Chief Secretary, Government of Rajasthan, Secretariat, Jaipur-302001
21. Shri Alok Kr. Shrivastava, Chief Secretary, Government of Sikkim, Secretariat, Gangtok- 737101
22. Shri K. Gnanadesikan, Chief Secretary, Government of Tamil Nadu, Secretariat, Chennai-600009
23. Dr. Rajiv Sharma, Chief Secretary, Government of Telengana, Secretariat, Hyderabad-500022.
24. Shri Yash Pal Singh, Chief Secretary, Government of Tripura, Civil Secretariat, Agaratala-799001
25. Shri Alok Ranjan, Chief Secretary, Government of Uttar Pradesh, Secretariat, Lucknow-226001
26. Shri Shatrughna Singh, Chief Secretary, Government of Uttarakhand, 4, Subhash Road, Secretariat, Dehradun-248001
27. Shri Basudev Banerjee, Government of West Bengal, Secretariat, Writers Building, Kolkata-700001
28. Shri Kewal Kr. Sharma, Chief Secretary, Govt of NCT Delhi, Delhi Secretariat, I.P. Estate, New Delhi- 110002
29. Shri Manoj Parida, Chief Secretary, Puducherry Administration, Chief Secretariat, 1 Beach Road, U.T. of Puducherry, Puducherry-605001.

**List of Head of Central Agencies, National Hydrology Project**

1. Sh. G.S. Jha, Chairman, Central Water Commission, Room No.313(S), Sewa Bhawan, R.K. Puram, New Delhi-110066
2. Sh. K.B. Biswas, Chairman, Central Ground Water Board, NH-IV, Faridabad, Haryana-121004.
3. Dr. L.S. Rathore, Director General, India Meteorological Department, Mausam, Bhawan, Lodhi Road, New Delhi-110003.
4. Sh. R.D. Singh, Director, National Institute of Hydrology, Jal Vigyan Bhawan, Roorkee-247667
5. Dr. M.K. Sinha, Director, CWPRS, P.O. Khadakwasla R.S., Pune – 411024, Maharashtra
6. Sh. A.K. Mehta, Chairman, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Shahdara, Delhi-110032.
7. Sh. S.K. Sharma, Chairman, Bhakhra Beas Management Board, Sector- 19-B, Madhya Marg, Chandigarh-160019.
8. Dr. V.K. Dadhwal, Director, NRSC, Deptt. of Space, Hal Campus, Bala Nagar, Hyderabad - 500625
9. Sh. Rajendra Mani Tripathi, The Surveyor General of India, Hathibarkala Estate, P.B. No.37, Dehradun, Uttarakhand, PIN-248001
10. Sh. A.W.K. Langstieh, Chairman, Damodar Valley Corporation, DVC Towers, VIP Road, Kolkata-700054

**List of Principal Secretaries of States, National Hydrology Project**

1. Sh. Aditya Nath Das, Principal Secretary(in charge), Irrigation & CAD Deptt, Govt. of Andhra Pradesh, AP Secretariat, Hyderabad-500022.
2. Sh. Shashi Bhusan Kumar, Secretary, Water Resources Deptt., Govt. of Andhra Pradesh, AP Secretariat, Hyderabad-500022.
3. Sh.R.T. Jindal, Addnl. Chief Secretary, Water Resources Department, Govt. of Assam, Assam omplex, Dispur, Guwahati, Assam 781 006
4. Sh.Arun Kumar Singh, Principal Secretary, Water Resources Deptt., Govt. of Bihar, Sinchai Bhavan, Patna 800 015
5. Sh.Tripurari Sharan, Principal Secretary, Department of Minor Irrigation., Govt. of Bihar, Vikas Bhavan, Patna 800 015
6. Sh. Ganesh Shankar Mishra, Secretary, Deptt. of water Resources, Government of Chhattisgarh, Mantralaya, Mahanadi Bhawan, Raipur-49,
7. Sh. R.K. Shrivastava, Principal Secretary (WR), Govt. of Goa, Secretariat, Porvorim-403501.
8. Sh. M.K. Jadav, Secretary, Water Resources Department, Govt. of Gujarat, New Sachivalaya Complex, Gandhinagar-383010.
9. Sh. V.S. Kundu, Additional Chief Secretary(Agriculture & Animal Husbandry& Fishery), R.No.202, new Sectt. Bldg., Govt. of Haryana, Sector-17, Chandigarh-160017
10. Shri Ramniwas, Additional Chief Secretary, Deptt. of Irrigation & Water Resources, Govt. of Haryana, Civil Secretariat, Chandigarh 160 001
11. Sh. Anuradha Thakur, Additional Chief Secretary, Irrigation & Public Health Department, Government of Himachal Pradesh, HP Secretariat, Shimla-171002
12. Sh. Sukhdev Singh, Principal Secretary, Water Resources Department, Govt. of Jharkhand, Nepal House, Ranchi-834002
13. Sh. Gurupadaswamy B.G., Secretary, Deptt. of Water Resources, Govt. of Karnataka, Vikash Soudha, Bangaluru-560001.
14. Sh. V.J. Kurian, Additional Chief Secretary, Water Resources Deptt., Govt. of Kerala, erala Secretariat, Thiruvananthapuram – 695001.



15. Sh. Radheshyam Julaniya, Additional Chief Secretary, Department of Water Resources, Govt. of Madhya Pradesh, Mantralaya, Vallabh Bhawan, Bhopal-462004.
16. Sh. Satish Gavai, Principal Secretary(WR), Water Resources Deptt., Govt. of Maharashtra, Mantralaya, Mumbai-400032.
17. Sh. Rajesh Kumar, Principal Secretary, Water Supply & Sanitation Deptt., Mantralaya, Mumbai-400032.
18. W.L. Hangsing, Principal Secretary, Water Resources Deptt., Govt. of Manipur, Imphal, Manipur 795 001
19. Sh. R.M. Mishra, Principal Secretary, Water Resources Deptt., Govt. of Meghalaya, Civil Secretariat, Riland Building , Shillong, Meghalaya 793 001
20. Sh. Rajeev Kumar Gupta, Secretary, Deptt. of Minor Irrigation, Govt. of Mizoram, Aizawal.
21. Sh. Bendang Kokba, Secretary, Irrigation and Flood Control Deptt. , Govt. of Nagaland, Kohima-797 001
22. Sh. Pradeep Kumar Jena, Principal Secretary, Department of Water Resources, Govt. of Odisha, Secretariat, Rajiv Bhawan, Bhubaneshwar-751001.
23. Sh. Kahan Singh Pannu, Secretary(Irrigation), 527, 5<sup>th</sup> Floor, Punjab Mini Secretariat, Sector-9, Govt. of Punjab, Chandigarh-160009.
24. Sh. J.C. Mohanti, Principal Secretary (Ground Water), Government of Rajasthan, R.No.1040, Main Secretariat Building, Jaipur-302001..
25. Sh. Ajitabh Sharma, Secretary , Water Resources Department , Govt. of Rajasthan, Secretariat, Jaipur 302 001
26. Sh. R.B. Thapa, Secretary, Irrigation & Flood Control Department , Govt. of Sikkim, Secretariat , Gangtok 737101.
27. Sh. N.S. Palanippan, Secretary, Public Works Deptt., Govt. of Tamil Nadu, Chennai-600009.
28. Shri S.K. Joshi, Principal Secretary, Deptt. of Irrigation& CAD, Govt. of Telangana, Secretariat, Hyderabad.
29. Sh. Lok Ranjan, Principal Secretary , Water Resources Department Govt. of Tripura, Capital Complex , Agartala 799 001
30. Ms. Renuka Kumari, Principal Secretary, Deptt. of Minor Irrigation, Govt. of Uttar Pradesh, R.No.11&12, 2<sup>nd</sup> Floor, Sachiv Bhawan, UP Civil Sectt., Vidhan Sabha, Lucknow-226001

31. Dr. Deepak Singhal, Principal Secretary, Deptt. of Irrigation & WR, Govt. of Uttar Pradesh , Sachivalya , Lucknow 226 001
32. Sh. Anand Vardhan, Secretary , Govt. of Uttrakhand, Irrigation & Power Department , Sachivalaya, Subhash Road , Dehradun 248 001
33. Sh. Naveen Prakash, Principal Secretary, Irrigation, Water Resources Investigation & Development Department, Govt. of West Bengal, II A, Mirza Ghalib St., Block-A, Kolkatta-700087.
34. Sh. A. Anbarasu, Secretary(I & FC)- Cum-Commissioner Development, Govt. of NCT of Delhi, 5/9, Under Hill Road, Civil Lines, Delhi-110054.
35. Dr. S. Sunderavadivulu, Secretary(Public Works), Chief Secretariat, Pudducherry, PIN-605001

List of Project Coordinators , National Hydrology Project

1. Member (RM), Central Water Commission, Room No. 212(S), Sewa Bhawan, R.K.Puram, New Delhi.
2. Chief Engineer, BBMB, Nangal Township, Distt. Ropar, Punjab, PIN-140124.
3. Director, CWPRS, P.O.-Khadakwasla Research Station, Pune, Maharashtra, PIN-421004.
4. Additional Director General of Meteorology, India Meteorological Department, Mausam Bhawan, Lodhi Road, New Delhi-3
5. Scientist D, Central Pollution Control Board , Parivesh Bhawan, East Arjun Nagar, Shahdara, Delhi-110032.
6. Member (SAM), Central Ground Water Board , Bhujal Bhawan, NH-IV, Faridabad, Haryana, PIN-121001.
7. Director, National Institute of Hydrology, Jal Vigyan Bhawan, Roorkee, Uttarakhand, PIN-247667.
8. Director, National Remote Sensing Agency(NRSA) Centre, Department of Space, Bala Nagar, Hyderabad, Andhra Pradesh, PIN-500625.
9. Surveyor General of India, Survey General Office, Govt. of India, Hathi Barkala Estate, P.B. No.37, Dehradun, Uttarakhand, PIN-248001.
10. Chairman, Damodar Valley Corporation, Govt. of India, DVC Towers, VIP Road, Kolkata, West Bengal, PIN-700054.
11. Sh. Dr. K. Venugopal, Director, Ground Water Department, Govt. of Andhra Pradesh, 8<sup>th</sup> Floors, BRKR Bhawan, B-Block, Govt. Office Complex, Tank Bund Road, Hyderabad-500063.
12. Sh. B. Hariram, Chief Engineer (Hydrology Project), Govt. of Andhra Pradesh, Erramunzil, Hyderabad, A.P. PIN-500048.
13. Rajendra Prasad Das, Chief Engineer, Water Resources Department, Chandmari, Govt. of Assam, Guwahati-3.



14. Sh. Rajesh Kumar, Er-in-Chief(North), Water Resources Deptt, Govt. of Bihar, Sinchai Bhawan, Patna, PIN-800015
15. Sh. Sunil Kumar, Superintending Engineer(Monitoring), Deptt. of Minor Irrigation , Vikas Sadan, Govt. of Bihar, PIN-800001
16. Sh. Jayant Pawar, Chief Engineer (M&G Basin), Govt. of Chhattisgarh, Mantralaya, Shanti Nagar, Raipur-492001
17. Chief Engineer (WR), Deptt. of Water Resources, Govt. of Goa, Circle I, Minor Irrigation, Junta House (2<sup>nd</sup> Floor), Annex., Panaji, Goa, PIN- 403001.
18. Sh. Vivek P. Kapadia, Chief Engineer (CG) & Additional Secretary, Narmada & Water Resources Dept, Govt. of Gujarat, Block 9, 1<sup>st</sup> Floor, New Sachivalaya Complex, Gandhinagar, Gujarat, PIN-382010
19. Sh. Bhupendra Singh, Director(Agriculture), Krishi Bhawan, Sector-21, Panchkula, Haryana.
20. Sh. Rajiv Bansal, Chief Engineer, O/o Er.-in Chief, Sinchai Bhawan, Sector-5, Panchkula, Haryana.-134109
21. Sh. R.K. Kanwar Engineer-in-Chief, Irrigation & Public Health Deptt , Govt. of Himachal Pradesh, U.S. Club, Shimla-4.
22. Director, Ground Water Department, Govt. of Jharkhand, Abhyantran Bhawan, Kachahari Chowk, Ranchi, PIN-843001.
23. Chief Engineer (Hydrology) & Central Mechanical Organization, Water Resources Development Organization, Govt of Karnataka, Anand Rao Circle, Bangalore, Karnataka, PIN-560009.
24. Smt. Rama S., Chief Engineer (Hydrology Project II) & Project Coordinator, HP-II, Deptt. of Irrigation, Govt. of Kerala, Public Office Building, Thiruvananthapuram, Kerala. PIN- -695013.
25. Engineer-in-Chief, MP Water Resources Department, Narmada Bhawan, BODHI, Tulsi Nagar, Bhopal-462003.
26. Chief Engineer (HP), Irrigation Department, Govt. of Maharashtra, Jal Vigyan Bhawan, Dindori Road, Nasik, Maharashtra, PIN-422004.
27. Director, Ground Water Surveys & Development Agency, Bhujal Bhawan, Wakadewadi Road, Shivaji Nagar, M.S., Pune -411005

28. Rabindra Sharma, Chief Engineer, Department of Irrigation & Flood Control, Govt. of Manipur, PWD Complex, Khoyathong, Imphal, PIN-795001.
29. Sh. K.D. Phawa, Chief Engineer, Water Resources Department, Government of Meghalaya, Agriculture Complex, Cleve Colony, Meghalaya, Shillong -793001
30. Sh. Lal Thanliana, Chief Engineer, Minor Irrigation Department, Govt of Mizoram, Upper Hacla, Aizwal. PIN-796001.
31. Er. Njilo Kemp Chief Engineer, Irrigation & Flood Control Department, Govt. of Nagaland, Kohima-797001
32. Sh. Tankdhar Sahoo, Er-in-Chief(P&D), Water Resources Deptt. Govt. of Orissa, Secha Sadan, Keshri Nagar, Bhubaneshwar-751012, Orissa.
33. Chief Engineer, Water Resources, Govt. of Punjab, Irrigation Works Department, Sinchai Bhawan, Madhya Marg, Sector18(B), Chandigarh.
34. Sh. Suraj Bhan Singh, Chief Engineer, Ground Water Department, Govt. of Rajasthan, Jodhpur
35. S.L. Mathur, Chief Engineer, Water Resources Department, IGNB Bhawan, Jyoti Nagar Mode, Bhavani Singh Marg, Jaipur.
36. R. Gurung, Chief Engineer, Irrigation and Flood Control Department, Government of Sikkim, Nirman Bhawan, Gangtok, Sikkim
37. Chief Engineer (WRO/PWD), State Ground and Surface Water Resources Data Centre, Govt. of Tamil Nadu, Tharamani, Chennai, Tamil Nadu, PIN-600113.
38. Er. Shankar Nayak, CE(Hydrology & Investigation, ), Deptt. of Irrigation and CAD, Govt. of Telangana, Erramanjil, 2<sup>nd</sup> Floor, Jalsauda Bhawan, Hyderabad, Telangana, PIN-500082
39. Sh. G. Sambhaiya, Director, Telangana State Ground Water Deptt., Govt. of Telangana, Chintal Basti, Khairatabad, Hyderabad
40. Sh. Tapan Lodh, Chief Engineer(WR), Public Works Department, Govt.of Tripura, Agartala.
41. Sh. Pratik Ranjan Chaurasia, Director(GW), 9<sup>th</sup> Floor, Indra Bhawan, Ashok Marg, Lucknow-226001
42. Anand Mohan Prasad, Er.-in-Chief(HoD), Irrigation & Water Resources Deptt., Govt. of Uttar Pradesh, Udayganj, Lucknow. PIN-266001.

43. Sh. D.P. Jugaran, Chief Engineer, , Irrigation Deptt., Govt. of Uttarakhand, Yamuna Colony , Dehradun-248001
44. Siddhartha DuttaChief Engineer West, Deptt. of Irrigation & Waterways, Government of West Bengal Jalasampad bhawan, 1<sup>st</sup> Floor, Western Block, Bidhannagar, Kolkata – 700091
45. Er-in-Chief & EOSECY, Ground Water Department, Govt. of West Bengal, 11A, Mirza Galib St., Block-A, Kolkata-700087.
46. SH. V.K. Jain, CHIEF ENGINEER (I&FC), ZONE-II , Deptt. of Irrigation & Flood Control, Govt. of NCT Delhi, LM Bund Office Complex, Shashtri Nagar, Delhi-110031
47. Superintending Engineer-(PWD), Govt. of Pondicherry, Chief Secretariat, No. 2, Eveche Street, Pondicherry, PIN-605001.